

THE UNITED STRATES OF AMERICA

TO ALL TO WHOM THESE: PRESENTS: SHAVIL COME:

Syngenta Seeds, Inc.

MINCE AS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE IGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR ORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT DBY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BEAN, GARDEN

'Embassy'

In Lestimony Thereof, I have hereunto set my hand and caused the seal of the Plant Baristy Protection Office to be affixed at the City of Washington, D.C. this seventeenth day of September, in the year two thousand and seven.

Allade

Ol-Zie

Commissioner Plant Variety Protection Office Agricultural Warbeting Service Agriculturo

REPRODUCE LOCALLY. Include form number and d	ate on all reprodu	etions	Form Approved - OMB No. 0581-0055			
U.S. DEPARTMEI AGRICULTURAL SCIENCE AND TECHNOLOGY - P	VICE	The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.				
APPLICATION FOR PLANT VA (Instructions and information co.		Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).				
1. NAME OF OWNER		-	TEMPORARY DESIGNATION OF EXPERIMENTAL NAME	3. VA	ARIETY NAME	
Syngenta Seeds, Inc.				Emb	passy	
4. ADDRESS (Street and No., or R.F.D. No., City,	State, and ZIP Cod	de, and Country)	5. TELEPHONE (include area code)		FOR OFFICIAL USE ONLY	
600 North Armstrong Place)		(208) 322-7272	PVPC	NUMBER	
Boise, Idaho 83704			6. FAX (include area code)	72	00500259	
•			(208) 327-9319		G DATE	
7. IF THE OWNER NAMED IS NOT A "PERSON", ORGANIZATION (corporation, partnership, asso		8, IF INCORPORATED, GIVE STATE OF INCORPORATION	9. DATE OF INCORPORATION		1400 2006	
Corporation	. ,	DE	February 25, 1975	$ r^{\prime\prime} $	4720,2005	
10. NAME AND ADDRESS OF OWNER REPRESE	NTATIVE(S) TO S	 SERVE IN THIS APPLICATION, (First)	person listed will receive all papers)	F	FILING AND EXAMINATION FEES:	
Sharleen Orthol K. aa	Bouces			E	\$ 3,652.00	
Syngenta Seeds, Inc.	011993	rway 20-26 ID 83687		R		
6 00 N. Armstrong Pl . ゅう ご	15 451	rway 20-26		E	DATE 5/20/05 CERTIFICATION FEE:	
Boise, ID 83704-	npa:	ED 83687		Ē	\$ 768.00	
) ⁻			V E	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
MAH 6/2/07				D	DATE 7 117 O	
11. TELEPHONE (Include area code)	12. FAX (Includ	•	13. E-MAIL Kim. brig		-	
(208) 327-7246 465-8522		³¹⁹ 467-4559	charleen.orthel@sygenta			
14. CROP KIND (Common Name)	16. FAMILY NA	AME (Botanical)	18. DOES THE VARIETY CON	TAIN ANY	TRANSGENES? (OPTIONAL)	
Bean, Garden	Fabaceae		YES INO	ASSIGNE	D USDA-APHIS REFERENCE NUMBER FOR THE	
15. GENUS AND SPECIES NAME OF CROP		RIETY A FIRST GENERATION HYBRII	APPROVED PETITION TO	DEREGU	LATE THE GENETICALLY MODIFIED PLANT FOR	
Phaseolus vulgaris L.	□YES		COMMERICALIZATION.			
 CHECK APPROPRIATE BOX FOR EACH ATTA (Follow instructions on reverse) 	ACHMENT SUBMI	TTED			SEED OF THIS VARIETY BE SOLD AS A CLASS 83(a) of the Plant Variety Protection Act)	
a.	of the Variety		YES (If "yes", answer items 21 and 22 below) NO (If "no", go to item 23)			
b. Exhibit B. Statement of Distinctness			21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES?			
c. Exhibit C. Objective Description of Vari	ety		YES NO			
d. Exhibit D. Additional Description of the	Variety (Optional)		IF YES, WHICH CLASSES? FOUNDATION REGISTERED CERTIFIED			
e. 📝 Exhibit E. Statement of the Basis of the	Owners Ownersh	qip	22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?			
1. Voucher Sample (2,500 viable untreate			YES NO			
verification that tissue culture will be de repository)	posited and maint	ained in an approved public	IF YES, SPECIFY THE NUM	BER 1,2,3	, etc. FOR EACH CLASS.	
g. Filing and Examination Fee (\$3,652), in States" (Mail to the Plant Variety Protect		reasurer of the United	☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED			
OO LIAC THE VADIETY (INCLUDING ANY HADVE	TCD MATERIAL	OD A HVORIO COOLUCTO	(If additional explanation is necessary, please use the space indicated on the reverse.)			
23. HAS THE VARIETY (INCLUDING ANY HARVES FROM THIS VARIETY BEEN SOLD, DISPOSED OTHER COUNTRIES?	OF, TRANSFERI	RED, OR USED IN THE U.S. OR	24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?			
YES NO			☐ YES ☑ NO			
IF YES, YOU MUST PROVIDE THE DATE OF I FOR EACH COUNTRY AND THE CIRCUMSTA			IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)			
25. The owners declare that a viable sample of basi a tuber propagated variety a tissue culture will b				accordance	e with such regulations as may be applicable, or for	
The undersigned owner(s) is(are) the owner of t entitled to protection under the provisions of Sec			, and believe(s) that the variety is new, o	istinct, unif	form, and stable as required in Section 42, and is	
Owner(s) is (are) informed that false representat	ion herein can jeo _l	pardize protection and result in penaltic	es.			
Charlen Orthel			IGNATURE OF OWNER			
NAME (Please print or type) Charleen Orthel		N	AME (Please print or type)			
CAPACITY OR TITLE	- I DATE		APACITY OR TITLE	DATE		
Registration Speciali	· .	10,000	·	1 .	9/2005	
U	-					

INSTRUCTIONS

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GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvpindex.htm

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that name has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, 10301 Baltimore Avenue, Suite 401 NAL Building, Beltsville, MD 20705. Telephone: (301) 504-5682 http://www.ams.usda.gov/lsg/seed.htm.

ITEM

- 19a. Give:
- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

Please see attached

24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filling a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information

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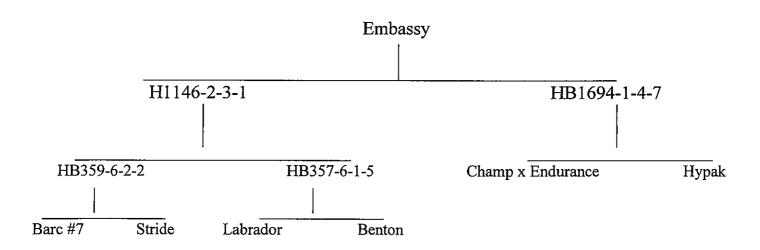
To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

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23.

Ship Date	Lbs	shp_country	Variety	State	Comment
27-Apr-04	20	Australia	BEAN EMBASSY		Regional Adaptability Trial
03-Jun-04	15	Canada	BEAN EMBASSY		Regional Adaptability Trial
23-Mar-04	10	Guatemala	BEAN EMBASSY		Regional Adaptability Trial
18-Mar-05	60	Mexico	BEAN EMBASSY		Regional Adaptability Trial
20-Feb-04	4321	United States	BEAN EMBASSY	CA	Processing trial
18-May-04	75	South Africa	BEAN EMBASSY		Regional Adaptability Trial

Exhibit A Origin and Breeding History 'Embassy'



The pedigree trace of 'Embassy' is shown above. 'Embassy' originated from the hand-pollinated cross between the Syngenta Seed, Inc. lines HB1146-2-3-1 and HB1694-1-4-7. HB359-6-2-2 and HB357-6-1-5 are lines from Syngenta Seeds, Inc. Champ is a variety developed by a company acquired by Syngenta Seeds, and Endurance is a variety developed by Syngenta Seeds, Inc. Hypak is a variety developed by Harris Moran. Barc#7 is a rust resistant USDA variety. Stride is a variety developed by a company acquired by Syngenta Seeds. Labrador is a variety developed by Seminis, Inc and Benton is a variety developed by Syngenta Seeds, Inc.

Embassy was a cross made in the fall of 1997. The F1 was bulked, and resulting F2, F3, F4 generations employed the single pod descent method to select for heat tolerance and yield. In the F5 generation a single was selected for traits of long straight pods with dark green pod flesh. Subsequent F6 through F8 generations were bulked and evaluated for purity. The F9 generation was bulk harvested and used supply seed for further increases. 'Embassy' has been uniform and stable for four generations of increases from the original F6 bulk, being free of off-types and variants.

Exhibit B Statement of Distinctness 'Embassy'

'Embassy' is a bush snap bean suitable for processing markets that most closely resembles the variety 'Labrador'. 'Embassy' differs statistically from 'Labrador' in the following traits.

- 1. 'Embassy' and 'Labrador' are significantly different in plant height. In Idaho, 'Labrador' (43.6 cm) was 10.8 cm greater in plant height than 'Embassy' (32.8 cm). There was 2.6 cm difference in plant height in Minnesota where average height was 46 and 43.4 cm for 'Labrador' and 'Embassy', respectively.
- 2. Four-sieve pod length was significantly different in varieties 'Embassy' and 'Labrador'. In Nampa, Idaho, 'Labrador' average four-sieve pod length was 13 cm and 'Embassy' was 13.8 cm a 0.8 cm difference. Average four-sieve pod length differed by 0.9 mm in Minnesota, with Labrador measuring 12.5 cm and 'Embassy' 13.4 cm. See Attachment B-2 a, thru f.

All reported values for plant height and four-sieve pod length are based on average measurements.

Data for plant height comparisons were collected in Nampa, Idaho and Stanton, Minnesota during the 2004 growing season. Twenty plants height measurements of each variety were taken at each location. Each plot was comprised of 100 plants.

Four-sieve pod length data was collected from pods harvested in 2004 from each variety of 100 plant plots in Nampa, Idaho and Stanton, Minnesota. Random samples from a four-sieve lot were measured for pod length.



Exhibit B Statement of Distinctness 'Embassy'

Explanation of statistical analysis variables used in the following attachments

PLHTLABID = Plant Height (cm), Labrador, Idaho
PLHTSBID = Plant Height (cm), Embassy, Idaho
PLHTLABMN = Plant Height (cm), Labrador, Minnesota
PLHTSBMN = Plant Height (cm), Embassy, Minnesota

SV4PLLABID = Four-Sieve Pod Length (cm), Labrador, Idaho SV4PLSBID = Four-Sieve Pod Length (cm), Embassy, Idaho SV4PLLABMN = Four-Sieve Pod Length (cm), Labrador, Minnesota SV4PLSBMN = Four-Sieve Pod Length (cm), Embassy, Minnesota

4/5/2005, 11:50:19 AM

Descriptive Statistics

Variable	N	Mean	SD	Minimum	Maximum
PLHTLABID	20	43.650	4.4281	32.000	49.000
PLHTSBID	20	32.850	4.0429	27.000	45.000

Attachment B-1a
Plant Height (cm)
Descriptive Statistics
'Labrador' vs. 'Embassy'
Nampa, Idaho
2004

Statistix 8.0 4/5/2005, 11:50:51 AM

One-Way AOV for: PLHTLABID PLHTSBID

DF MS Source SS F 1166.40 Between 1 1166.40 64.9 0.0000 38 683.10 17.98 Within Total 39 1849.50

Grand Mean 38.250 CV 11.08

Chi-Sq DF P
Bartlett's Test of Equal Variances 0.15 1 0.6956
Cochran's Q 0.5454
Largest Var / Smallest Var 1.1996

Component of variance for between groups 57.4212 Effective cell size 20.0

Variable Mean
PLHTLABID 43.650
PLHTSBID 32.850
Observations per Mean 20
Standard Error of a Mean 0.9481
Std Error (Diff of 2 Means) 1.3408

Attachment B-1b Plant Height (cm) AOV 'Labrador' vs. 'Embassy' Nampa, Idaho 2004

4/5/2005, 11:51:18 AM

LSD All-Pairwise Comparisons Test

Variable Mean Homogeneous Groups
PLHTLABID 43.650 A
PLHTSBID 32.850 B

Alpha 0.05 Standard Error for Comparison 1.3408 Critical T Value 2.024 Critical Value for Comparison 2.7142 All 2 means are significantly different from one another.

Attachment B-1c
Plant Height (cm)
Comparison of Means
'Labrador' vs. 'Embassy'
Nampa, Idaho
2004

4/5/2005, 11:48:58 AM

Descriptive Statistics

Variable	N	Mean	SD	Minimum	Maximum
PLHTLABWI	20	46.050	2.3725	42.000	52.000
PLHTSBWI	20	43.400	4.5352	36.000	50.000

Attachment B-1d Plant Height (cm) Descriptive Statistics 'Labrador' vs. 'Embassy' Stanton, Minnesota 2004

4/5/2005, 11:46:24 AM

One-Way AOV for: PLHTLABWI PLHTSBWI

Source \mathbf{DF} SS MS F P 70.225 Between 1 70.2250 5.36 0.0261 Within 38 497.750 13.0987 Total 39 567.975

Grand Mean 44.725 CV 8.09

Chi-Sq DF P
Bartlett's Test of Equal Variances 7.28 1 0.0070
Cochran's Q 0.7851
Largest Var / Smallest Var 3.6540

Component of variance for between groups 2.85632 Effective cell size 20.0

Variable Mean
PLHTLABWI 46.050
PLHTSBWI 43.400
Observations per Mean 20
Standard Error of a Mean 0.8093
Std Error (Diff of 2 Means) 1.1445

Attachment B-1e
Plant Height (cm)
AOV
'Labrador' vs. 'Embassy'
Stanton, Minnesota
2004

4/5/2005, 11:47:48 AM

LSD All-Pairwise Comparisons Test

Variable Mean Homogeneous Groups PLHTLABWI 46.050 A PLHTSBWI 43.400 B

Alpha 0.05 Standard Error for Comparison 1.1445 Critical T Value 2.024 Critical Value for Comparison 2.3169 All 2 means are significantly different from one another.

Attachment B-1f
Plant Height (cm)
Comparison of Means
'Labrador' vs. 'Embassy'
Stanton, Minnesota
2004

3/30/2005, 11:46:19 AM

Descriptive Statistics

Variable	N	Mean	SD	Minimum	Maximum
SV4PLLABID	20	13.095	0.8841	11.200	14.500
SV4PLSBID	20	13.820	0.4905	13.100	14.700

Attachment B-2a
Four-Sieve Pod Length (cm)
Descriptive Statistics
'Labrador' vs. 'Embassy'
Nampa, Idaho
2004

3/30/2005, 11:43:38 AM

One-Way AOV for: SV4PLLABID SV4PLSBID

Source DF MS F P SS 5.25625 1 5.2563 10.3 0.0027 Between 19.4215 0.51109 Within 38 Total 39 24.6778

Grand Mean 13.457 CV 5.31

Chi-Sq DF P
Bartlett's Test of Equal Variances 6.08 1 0.0137
Cochran's Q 0.7646
Largest Var / Smallest Var 3.2479

Component of variance for between groups 0.23726 Effective cell size 20.0

Variable Mean
SV4PLLABID 13.095
SV4PLSBID 13.820
Observations per Mean 20
Standard Error of a Mean 0.1599
Std Error (Diff of 2 Means) 0.2261

Attachment B-2b
Four-Sieve Pod Length (cm)
AOV
'Labrador' vs. 'Embassy'
Nampa, Idaho
2004

3/30/2005, 11:44:50 AM

LSD All-Pairwise Comparisons Test

Variable Mean Homogeneous Groups SV4PLSBID 13.820 A SV4PLLABID 13.095 B

Alpha 0.05 Standard Error for Comparison 0.2261 Critical T Value 2.024 Critical Value for Comparison 0.4577 All 2 means are significantly different from one another.

Attachment B-2c
Four-Sieve Pod Length (cm)
Comparison of Means
'Labrador' vs. 'Embassy'
Nampa, Idaho
2004

3/30/2005, 11:48:05 AM

Descriptive Statistics

Variable	N	Mean	SD	Minimum	Maximum
SV4PLLABMN	20	12.570	1.1904	9.7000	14.600
SV4PLSBMN	20	13.405	0.8924	11.800	15.500

Attachment B-2d
Four-Sieve Pod Length (cm)
Descriptive Statistics
'Labrador' vs. 'Embassy'
Stanton, Minnesota
2004

3/30/2005, 11:48:59 AM

One-Way AOV for: SV4PLLARMN SV4PLSBMN

Source	DF	SS	MS	F	P
Between	1	6.9723	6.97225	6.30	0.0164
Within	38	42.0515	1.10662		
Total	39	49.0238			

Grand Mean 12.988 CV 8.10

Chi-Sq DF P
Bartlett's Test of Equal Variances 1.52 1 0.2182
Cochran's Q 0.6402
Largest Var / Smallest Var 1.7794

Component of variance for between groups 0.29328 Effective cell size 20.0

Variable Mean
SV4PLLABMN 12.570
SV4PLSBMN 13.405
Observations per Mean 20
Standard Error of a Mean 0.2352
Std Error (Diff of 2 Means) 0.3327

Attachment B-2e
Four-Sieve Pod Length (cm)
AOV
'Labrador' vs. 'Embassy'
Stanton, Minnesota
2004

3/30/2005, 11:49:44 AM

LSD All-Pairwise Comparisons Test

Variable Mean Homogeneous Groups SV4PLSBMN 13.405 A SV4PLLABMN 12.570 B

Alpha 0.05 Standard Error for Comparison 0.3327 Critical T Value 2.024 Critical Value for Comparison 0.6734 All 2 means are significantly different from one another.

Attachment B-2f
Four-Sieve Pod Length (cm)
Comparison of Means
'Labrador' vs. 'Embassy'
Stanton, Minnesota
2004



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U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705 Exhibit C

OBJECTIVE DESCRIPTION OF VARIE Garden Bean (<i>Phaseolus vulgaris</i> L	-
NAME OF APPLICANT (S) Seeds, Inc. TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME Embassy
ADDRESS (Strett and No. or RD No., City, State, Zip Code, and Country)	PVPONUMBER 200500259
PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters should be ba data should be determined from varieties centered in the same trial. Measured data should be for SPACED F Horticultural Society or any recognized color standard may be used to determine plant colors; designate system Please answer all questions for your variety; lack of response may delay progress of your application.	sed on a minimum of 100 plants. Comparative PLANTS. Ranges should also be given. Royal
1. TYPE: 1 = Garden 2 = Flageolet 3 = Romano 2. MARKET MATURITY: 5	2 = Kentucky Wonder 4 = Sienderette 6 = Provider
3. PLANT: OG cm Spacing Between Plants in a Row Habit 1 = Determinate 2 = Indeterminate, Erect Stem and Branches 3 = Indeterminate with Weak and Prostrate Stem and Branches 4 = Indeterminate Climbing Habit with Weak, Long, and Twisted Stem and Branches Comparison Variety Use Contact Than Comparison Variety Use Contact Than Comparison Variety Use Contact Than Comparison Variety	ches mparison Varieties from Section 2

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							Exhibit C (G)	(Dau Desu)
3. PLANT: (c	continued)					•		
25	cm Spread							
112	см Narrower Than	7						
	Same Width As	Compariso	on Variety		<u>Use Com</u>	parison Varieti	es from Section 2	
1	cm Wider Than	- 4046						
3 Poo	i Position 1 = Low	2 = High 3 = Sca	ttered					
4 Bus	sh Form (Illustrated Below	v) i	60		AGIO	ĺ	NOT	¥a.
•	era STOP	_ 1		ار.				
				AA			TANA	
12				73			7	70
.80					MANOR	n	7	V
	Mary Sales Services	-200		4		3.00		•
1 = 1	Spherical Bush Form	2 = Sten	n Bush Form	3	= Wide Bush Form	· ·	4 = High Bush Form	•
	Other (Specify)						_	
4. LEAVES:	<u> </u>					· · · · · · · · · · · · · · · · · · ·		<u> </u>
	face: 1 = Duli	2 = Glossy	3 = Indeterminate	•				
Size	e: 1 = Small (Git	tana) 2 ≃ Med	ium 3 ≈ Lar	ge (Tender Cro	pp)			
<u>3</u> cox	or: 1 = Light Gre 2 = Medium (en (as Light or Lighte Green	er than Gold Rush)					
	3 = Dark Gree	on (as Dark or Darke	r than Bush Blue La	ake 290)				
5. ANTHOCY	ANIN PIGMENT:	1 = Absent	2 = Present		[- -			
Flow	vers [1]	Stems	Pods		Seeds			
LLJ Leav	/es	Petioles	Peduno	:les 	Nodes			
	COLOR AND DAYS TO	BLOOM:						
Ħ	of Standard			ream				
Color o	of Wings		3 = Pink 4 = L 5 = Purple 6 = B 7 = Other (Specify	llue				
নি ন	ys to 50% Bloom		7 - Other (Specify	'J				
	· <u> </u>							
[2]	ole Maturity): or Color	1 = l inht Green (as	Light or Lighter tha	an Provider)				
(Fresh		2 = Medium Green 3 = Dark Green (as 4 = Yelkow (Gold Ro 5 = Green-red Vario 6 = Other (Specify)	Dark or Darker thaush) egated (Horticultura	n Bush Blue La	ake 290)			
2 Proc	essed Pods (Exterior Col		(Tender Crop)	2 = Dark (Bu	sh Blue Lake 290)			
	Pod Color	_	skin (Sprite)	,	ersistent Chlorophy			

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								Exhibit C (G	uden Be
7. PODS (continued):									
3 Cross Section		= Flat 2	= Heart (Pear)	3 ≈ Round	4 = Fig	ure Eight			
(Middle of the) P00)	<u>-</u>	A	A	يسير				
	(6)	iliani.	(<u>0)</u> -		G				
Crease Back	1 = Present	2 = Ab	sent				•		
2 Pubescence	1 = None (S		2 = Sparse	3 = Conside	rable (Provider	or Sprite)			
(9-	terlocular Cavitati		ne 2 = Slight 3 = Deep		industry (Friedrick)	or op.no,			
1 /a mm Spuri		- · · · · · · · · · · · · · · · · · · ·							
Fiber 1=N	ione (Bush Blue I	ake 290)	2 = Sparse	3 = Conside	rable (Sprite)				
Number of See			= - F2.30		,, (- p)				
Suture String	1 = Present	2 = Ab	sent						
Constriction (In	ent 1 = Slow (Bu	ish Blue Lake :	290) 2 = Me di	um 3	≠ Fast (Provider)		•	
	st 1 = Adapted		t Adapted		•	•			
ercent sieve size distribu	ition at optimum i	naturity for not	-flat pods to 5	mm Sd	517.				
4.76 to 5.76mm	5.76 to 7.	34mm	7.34 to 8.34mm		9.53mm	9.53 to 10.	72 mm	>10.72m	m
	<u> </u>			<u> </u>	-				
2 %		2 %	3 %		35 %	57	2 %		6 9
3 Sleve	ca	1 Length		mm width		To	tal mm Thick	kness	
4 Sieve	1 3.4 cm	ı Length	8.5	mm width			ıtal mm Thick	kness	
5 Sieve	14 cn	Length	9.2	mm width	:	92 To	tal mm Thick	kness	
6 Sieve	cn	Length	للا	mm width		т	ital mm Thic	kness	
SEED COLOR:			<u> </u>						
T. 1	er: 1 = Shiny 2 =	:Dult 3 = Sea	mi-Shiny 4 = Varia	bie					
Seed Coat:	1 = Monochr		ychrome						
/ / Primary Color		2 = Yellow	3 = Buff	4 = Tan	5 = Brown	6 = Pink	7 = Red	8 = Purple	
	9 = Blue	10 = Black	11 = Other	Gaso			_	·	
Secondary Co	olor: 1 = White 9 = Blue	2 = Yellow 10 = Black	3 = Buff 11 = Other	4 = Tan 	5 ≂ Brown	6 = Pink	7 = Red 	8 = Purple	
Seed Coat Patte	m 1 = Solid	1 = Splasher	d 3 = Mottled	4 = Striped	5 = Flecked	6 = Dotted			
2 Hilar Ring	1 = Absent	2 = Present							
o 3 Hilar Ring Col		2 = Yellow		4 = Tan	5 = Brown	6 = Pink	7 = Red	8 = Purple	
	9 = Blue	10 = Black	11 = Other					·	
SEED SHAPE AND SE	ZE:								
2 Hillum View				•					
	Come.	-		<u> </u>		- A. C.			
	1 =	Elliptical	2 = Ova		3 =	Round			
2 Cross Section	t = Ellistiant	2 - 0	l 3 – Cardeto	A - Daned	ı				
	1 = Elliptical	2 = Ova	i 3 = Cordate	4 = Round	•				

STINGEN IA SEEDS IN

9. SEED SHAPE AND SIZE: (continued) 3 Side View 1 = Oval to Oblong 2 = Round 3 = Reniform gm/100 Seeds gm/100 Seeds Lighter Than gm/100 Seeds Same As Comparison Variety om/100 Seeds Heavier Than 06 10. DISEASE RESISTANCE: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant Anthracnose (Colletotrichum lindemuthianum) Race Alpha Race Beta Race Gamma Race Delta Race Epsilon Race Lambda Race Kappa Specify Race Bean Rust (Uromyces appendiculatus) Race 44 Race 38 Race 39 Race 40 Race 50 Race 45 Race 46 Race 49 Race 51 Race 52 Race 54 Race 56 Race 59 Specify Race Powdery Mildew (Ersiphe polygoni) 0 Fusarium Root Rot (Fusarium solani f. sp. phaseoli) 0 Pythium Root Rot (Pythium spp.) Aphanomyces Root Rot (Aphanomyces euteiches) Rhizoctonia Root Rot (Rhizoctonia solani) 0 Pythium Blight or Aereal Pytium (Pythium ultimum) Angular Leaf Spot (Isariopsis griseola) Bacterial Wilt (Corynebacterium flaccumfaciens subsp. flaccumfaciens) Bacterial Brown Spot (Pseudomonas syringae pv. syringae) 0 Common Bacterial Blight (Xanthomonas campestris pv. phaseoli) 0 Halo Blight (Pseudomonas syringae pv. phaselicola) Race 1 Race 2 Clover Yellow Vein Virus (CYVV) Bean Common Mosaic Virus (BCMV) NY15 BV1 NL2 NL3 NL4 NL8 Florida Idaho Western Mexican Rusistance to send transmission Other (Specify) Yellow Bean Mosaic Virus (BYMV)

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Other (Specify Disease and Race or Strain

Curly Top Virus (BCTV)

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Exhibit C (Garden Bean)

11. INSECT RESISTANCE: 0 = Not Tested 1 = \$	Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant	
O Aphid	Root Knot Nematode	
O Leafhopper	O Seed Com Maggot .	
Q Lygus		
D Pod Borer	Q Weevils	
Other (Specify)		
12. PHYSIOLOGICAL RESISTANCE: 0 = Not Tes	sted 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant	
O Cold	Drought	
O Air Pollution Ozone	_	
Other (Specify)		
	· · · · · · · · · · · · · · · · · · ·	

13. COMMENTS:

Exhibit E Statement of the Basis of Ownership 'Embassy'

Garden Bean Embassy was bred and developed by plant breeders employed by Syngenta Seeds. By agreement between the employee and Syngenta Seeds, all rights to any invention, discovery or development made by the employee while employed by Syngenta Seeds were assigned to Syngenta Seeds, with no rights retained by the employee.

REPRODUCE LOCALLY, Include form number and editi	on date on all reproductions.	DRM APPROVED - OMB No. 0581-0055	
OUS. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE EXHIBIT E	Application is required in order to determine if a plant variety protectio certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).		
STATEMENT OF THE BASIS OF OWNERSHIP			
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME	
Syngenta Seeds, Inc.		Embassy	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (include area code)	6. FAX (Include area code)	
600 North Armstrong Place	208-465-8522	208-467-4559	
Boise, ID 83704	7. PVPO NUMBER	<u></u>	
	200500259		
8. Does the applicant own all rights to the variety? Mark an "X" in the	 e appropriate block. If no, please expl ai	in. YES NO	
9. Is the applicant (individual or company) a U.S. national or a U.S. ba	ased company? If no, give name of co	ountry. YES NO	
10. Is the applicant the original owner?	NO If no, please answer one	of the following:	
a. If the original rights to variety were owned by individual(s), is (a	nre) the original owner(s) a U.S. Nationa NO If no, give name of countr		
b. If the original rights to variety were owned by a company(ies), YES	is (are) the original owner(s) a U.S. bas		
11. Additional explanation on ownership (Trace ownership from origin	al breeder to current owner. Use the re	everse for extra space if needed):	
Same as on original application.			
Garden Bean, Embassy, was bred and developed by plant breeders of Syngenta Seeds, all rights to any invention, discovery or development Syngenta Seeds, with no rights retained by the employee.	employed by Syngenta Seeds. By agree t made by the employee while employed	ement between the employee and d by Syngenta Seeds were assigned to	
PLEASE NOTE:			
Plant variety protection can only be afforded to the owners (not license	ees) who meet the following criteria:		
If the rights to the variety are owned by the original breeder, that pen national of a country which affords similar protection to nationals of			
2. If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a c genus and species.			
3. If the applicant is an owner who is not the original owner, both the o	original owner and the applicant must m	eet one of the above criteria.	
The original breeder/owner may be the individual or company who direct for definitions.	ected the final breeding. See Section 4	1(a)(2) of the Plant Variety Protection	
According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, a control number. The valid OMB control number for this information collection is 0581-0055. Including the time for reviewing the instructions, searching existing data sources, gathering an	The time required to complete this information collec	tion is estimated to average 0.1 hour per response,	
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To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

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U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT F

	DECLARATION REGARDING DEPOSIT	
NAME OF OWNER (S) Syngenta Seeds, Inc.	ADDRESS (Street and No. or RD No., City. State. and Zio Code and Country) 600 North Armstrong Place	TEMPORARY OR EXPERIMENTAL DESIGNATION
NAME OF OWNER REPRESENTATIVE (S) Kim Briggs	Boise, ID 83704 LSA ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) 6338 Highway 20-26 Nampa, ID 83687	VARIETY NAME Embassy FOROFFICIAL USEONLY PVPO NUMBER

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

m Bugger 02-14-2007